MEMORANDUM FOR: All NWS Regional Headquarters, Regional
Maintenance Specialists, Electronic Systems
Analysts, and Electronics Technicians
[Engineering Handbook (EHB)-13, Series II
distribution]

FROM: W/OPS1 John McNulty

SUBJECT: Transmittal Memorandum for Engineering
Handbook EHB-13 Series II, Issuance 00-22

1. <u>Material Transmitted:</u>

   Engineering Handbook No. 13 Series II, Advanced Weather
   Interactive Processing System (AWIPS), Section 3.3, AWIPS
   Software Patch Modification Note 14, New TSFP 4.3.1
   executables/scripts. Patch number P431_TDL_A100077R2.

2. <u>Summary:</u>

   AWIPS Software Patch Modification Note 14 provides
   instruction on installing a software patch to repair
   problems identified with R4.3.1 TSFP software.

3. <u>Effect on Other Instructions:</u>

   None.

AWIPS SOFTWARE PATCH MODIFICATION NOTE 14 (for Electronic Systems Analysts)
W/OPS21: BP
W/OPS12: FJZ

SUBJECT   **:** New TSFP 4.3.1 executables/scripts.

PURPOSE   **:** To repair problems identified with R4.3.1 state forecast product (TSFP) software

PATCH NUMBER   **:** P431_TDL_A100077R2

AFFECTED SITES   **:** Any R4.3.1 WFOs or other sites that use tabular TSFP must install this patch

VERIFICATION
STATEMENT   **:** The patch and installation procedures were tested and verified at National Weather Service Headquarters (WSH) Silver Spring, MD , Eastern Region Headquarters (VUY), and at the Charleston, WV (RLX), Albany, NY (ALY), Columbia, SC (CAE), Sterling, VA (LWX), State College, PA (CTP), Philadelphia, PA (PHI), Wakefield, VA (AKQ), Portland, ME (GYX), Cincinnati, OH (ILN) weather forecast offices.

REINSTALLATION
REQUIREMENTS   **:** Reinstall after an R4.3.3 upgrade. Refer to part C of these instructions

TIME REQUIRED   **:** Approximately 5 minutes

SECURITY LEVEL   **:** root

GENERAL

The Techniques Development Laboratory (TDL) identified two problems with theTSFP software in R4.3.1. As a result, a new version of the TSFP executable was developed. The patch addresses the following issues:

- C   Incorrect 12 hour PoP formatted in the last period of the forecast.
- C   Date header is shifted resulting in incorrect period labels for the 12Z product.

NOTE: Some of the software functionalities in this patch are not present in R4.3.3. A portion of this patch must be reinstalled after the R4.3.3 upgrade. For reinstallation instructions, refer to part C in this procedure.

The patch file ("tsfp431new.tar.Z") must be downloaded form the NOAA1 server and unbundled to extract the installation scripts and new executables.

The patch installation will perform the following functions:

- C   Back up the original executables *as* "/awips/adapt/ifps/bin/*<name>*.431" on ds1. Where *<name>* is the name of the executable.
- C   The patch log file ("/awips/PatchLog") on ds1 will be automatically updated.

PROCEDURE

A.   TSFP Software Patch Installation Procedure

1.   At a workstation, open a telnet window, log in as **awipsusr**. Log in to ds1 as **root** by typing:

    rlogin ds1 -l root

2.   Change to the "/awips/adapt" directory by typing:

    cd /awips/adapt

3.   Connect to the NOAA1 ftp server by typing:

    ftp 165.92.30.15

4.   Once connected, login as **anonymous** user.

5.   Get the "tsfp431new.tar.Z" file by typing:

    binary
    hash
    cd /pub
    get tsfp431new.tar.Z
    bye

6.   Unbundle the "tsfp431new.tar.Z" file to get four script files ("install_tsfp431.sh", "RC.sh", "tsfp.bat", and "run_tsfp.bat") and one executable ("tsfp") file by typing:

    uncompress tsfp431new.tar.Z
    tar xvf tsfp431new.tar

7.   Install the new TSFP software on ds1 and update the patch log file ("/awips/PatchLog") by typing:

    ./RC.sh -i PatchID.431.77R2 install_tsfp431.sh

8. Respond to the following questions as indicated (question "a" may not appear):

   a. You can view additional entries in patch log for MDL. Would you like to do this? [y/n]
      Action: To proceed, please enter: **n** and a carriage return.

   b. Shall we proceed with the update of your files? [y/n]
      Action: To proceed, please enter: **y** and a carriage return.

9. Once the installation script ("install_tsfp431.sh") is complete, respond to the following questions as indicated.

   a. Do you wish to proceed with the patch log update? [y/n]
      Action: To proceed, please enter: **y** and a carriage return.

   b. Please enter your name [Example: John Doe]:
      Action: enter your name.

   c. Please enter your telephone number (with area code and ext):
      Action: enter your phone number.

   d. Do you wish to update patch log with this line? [y/n]
      Action: To complete the patch log update, enter: **y** and a carriage return.

10. Delete the tar file and install script by typing:

    rm tsfp431new.tar
    rm install_tsfp431.sh

NOTE: The "RC.sh" script should not be deleted in the event it may be needed for uninstalling or reinstalling the patch (parts B and C).

---

11. Exit the root login and close the telnet window by the commands:

    exit
    exit
    exit

This completes the software patch installation procedure.

B. Patch Uninstallation Procedure

Use this part of the procedure **only** if it is necessary to uninstall the patch and replace the original executable(s).

1. At a workstation, open a telnet window and log in as **awipsusr**. Log in to ds1 as **root** by typing:

   ```
   rlogin ds1 -l root
   ```

> **NOTE:** To uninstall a particular patch component, perform steps 2, 3, and/or 4. To uninstall the entire patch, perform steps 2 through 6.

2. To remove the new version of "tsfp," type:

   ```
   cd /awips/adapt/ifps/bin

   mv ./tsfp.431 ./tsfp

   chown ifps:awips ./tsfp

   chmod 777 ./tsfp
   ```

3. To remove the new version of "tsfp.bat," type:

   ```
   cd /awips/adapt/ifps/bin

   mv ./tsfp.bat.431 ./tsfp.bat

   chown ifps:awips ./tsfp.bat

   chmod 777 ./tsfp.bat
   ```

4. To remove the new version of "run_tsfp.bat," type:

   ```
   cd /awips/adapt/ifps/bin

   mv ./run_tsfp.bat.431 ./run_tsfp.bat

   chown ifps:awips ./run_tsfp.bat

   chmod 777 ./run_tsfp.bat
   ```

> **NOTE:** Perform the next step only if the entire patch needs to be removed **and** if steps 2 through 4 have been performed.

5. Change to the "/awips/adapt" directory by typing:

    ```
    cd /awips/adapt
    ```

6. Revert to the original executables by typing:

    ```
    ./RC.sh -r PatchID.431.77R2
    ```

7. Answer the following questions as indicated:

    a. Do you wish to continue? [y/n]
        Action: To proceed, please enter: **y** and a carriage return.

    b. You can view additional entries in the patch log for TDL. Would you like to do this? [y/n]
        Action: To proceed, please enter: **n** and a carriage return.

    c. Do you wish to proceed with the patch log update? [y/n]
        Action: To proceed, please enter: **y** and a carriage return.

    d. Please enter your name [Example: John Doe]:
        Action: enter your name.

    e. Please enter your telephone number (with area code and ext):
        Action: enter your phone number.

    f. Do you wish to update patch log with this line? [y/n]
        Action: To complete the patch log update, enter: **y** and a carriage return

8. Exit the **root** login and close the telnet window by typing:

    ```
    exit
    exit
    ```

This completes the patch uninstallation procedure.

C.   Patch Reinstallation Procedure.

Some of the software functionalities contained in this patch are not available in R4.3.3. Use this procedure to reload the patch after an R4.3.3 upgrade.

1.   At a workstation, open a telnet window and log in as **awipsusr**. Log in to ds1 as **root** by typing:

    ```
    rlogin ds1 -l root
    ```

2.   Change to the "/awips/adapt" directory by typing:

    ```
    cd /awips/adapt
    ```

3.   Install the patch by typing

    ```
    ./RC.sh -a PatchID.431.77R2
    ```

4.   Respond to the following questions as indicated:

    a.   Do you wish to continue? [y/n]
         Action: To proceed, please enter: **y** and a carriage return.

    b.   You can view additional entries in the patch log for TDL. Would you like to do this? [y/n]
         Action: To proceed, please enter: **n** and a carriage return.

    c.   Do you wish to proceed with the patch log update? [y/n]
         Action: To proceed, please enter: **y** and a carriage return.

    d.   Please enter your name [Example: John Doe]:
         Action: enter your name.

    e.   Please enter your telephone number (with area code and ext):
         Action: enter your phone number.

    f.   Do you wish to update patch log with this line? [y/n]
         Action: To complete the patch log update, enter: **y** and a carriage return.

5.   Change to the "/awips/adapt/ifps/bin" directory by typing:

    ```
    cd /awips/adapt/ifps/bin
    ```

6. Copy the new and retain the original tsfp files by typing:

```
cp -p ./tsfp.new ./tsfp
cp -p ./tsfp.bat.new ./tsfp.bat
cp -p ./run_tsfp.bat.new ./run_tsfp.bat
```

7. Exit the **root** login and close the telnet window by typing:

```
exit
exit
```

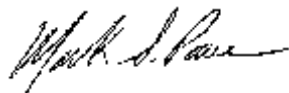This completes the patch reinstallation procedure.

MODIFICATION

Report the completed modification on a WS Form A-26 Maintenance Record, according to instructions in Engineering Handbook 4 (EHB-4), part 2, and appendix H. A sample A-26 form is attached. As an additional guide, use the information in the table below.

Block #	Block Type	Information
5	Description	Perform Modification I.A.W. Software Patch Modification Note 14
7	Equipment Code	AWIPS
8	Serial Number	001
15	Comments	Update AWIPS system software with TSFP 4.3.1 executables/scripts; Patch number P431_TDL_A100077R2
17a	Mod. No.	SP14

TECHNICAL SUPPORT

For questions or problems regarding these installation instructions or running the tsfp program, please contact Brian Papa or Jim Calkins of the AWIPS Site Support Team at 301-713-0920 ext 120.

John McNulty
Chief, Maintenance, Logistics, and Acquisition Division

ATTACHMENT A

WS FORM A -26 (4/94)	WS FORM A -26 (4/94) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE **ENGINEERING MANAGEMENT REPORTING SYSTEM** MAINTENANCE RECORD	Document Number **G 49978**

General Information	**1.** Open Date **11 / 30 / 00**	Time **0900**	**2.** Initials **JMM**	**3.** Response Priority (check one) ○ Immediate ○ Low ○ Routine ☒ Not Applicable	**4.** Close Date **11 / 30 / 00**	Time **1000**

5. Description   **Fix problems with R4.3.1 TSFP software by installing Patch Number P431_MDL_A100077R2 I.A.W. AWIPS Software Patch Mod Note 14**

Equipment Information	**6.** Station ID **CTP**	**7.** Equipment Code **AWIPS**	**8.** Serial Number **001**	**9.** TM **M**	**10.** AT **M**	**11.** How Mal. **999**

12. EQUIPMENT OPERATIONAL STATUS TIMES	**a.** Fully Operational	**b.** Logistics Delay	Partly Operational **c.** All Other	**d.** Logistics Delay	Not Operational **e.** All Other

13. Parts Failure Information / 14. Work Load Information

Block #	**a.** ASN	**b.** NSN	**c.** TM	**d.** AT	**e.** How Mal.	**f.** Qty.	**g.** Maint. Hrs.	Type	Staff Hrs.
1								**a.** Routine	
2								**b.** Non-routine	
3								**c.** Travel	
4								**d.** Misc.	**1:00**
5								**e.** Overtime	

Miscellaneous Information	**15.** Maintenance Comments **Installed AWIPS Software Patch Number P431_MDL_A100077R2 I.A.W. AWIPS Software Patch Mod Note 14**	**16.** Initials **JMM**

17. SPECIAL PURPOSE REPORTING	**a.** Mod. No. **SP14**	**b.** Mod./Act./Deact.Date **11/30/00**	**c.**	**d.**	**e.**

18. CONFIGURATION MGMT. REPORTING (use as directed)	ASN	Vendor Part Number (New Part)	Serial Number (Old Part)	Serial Number (New Part)